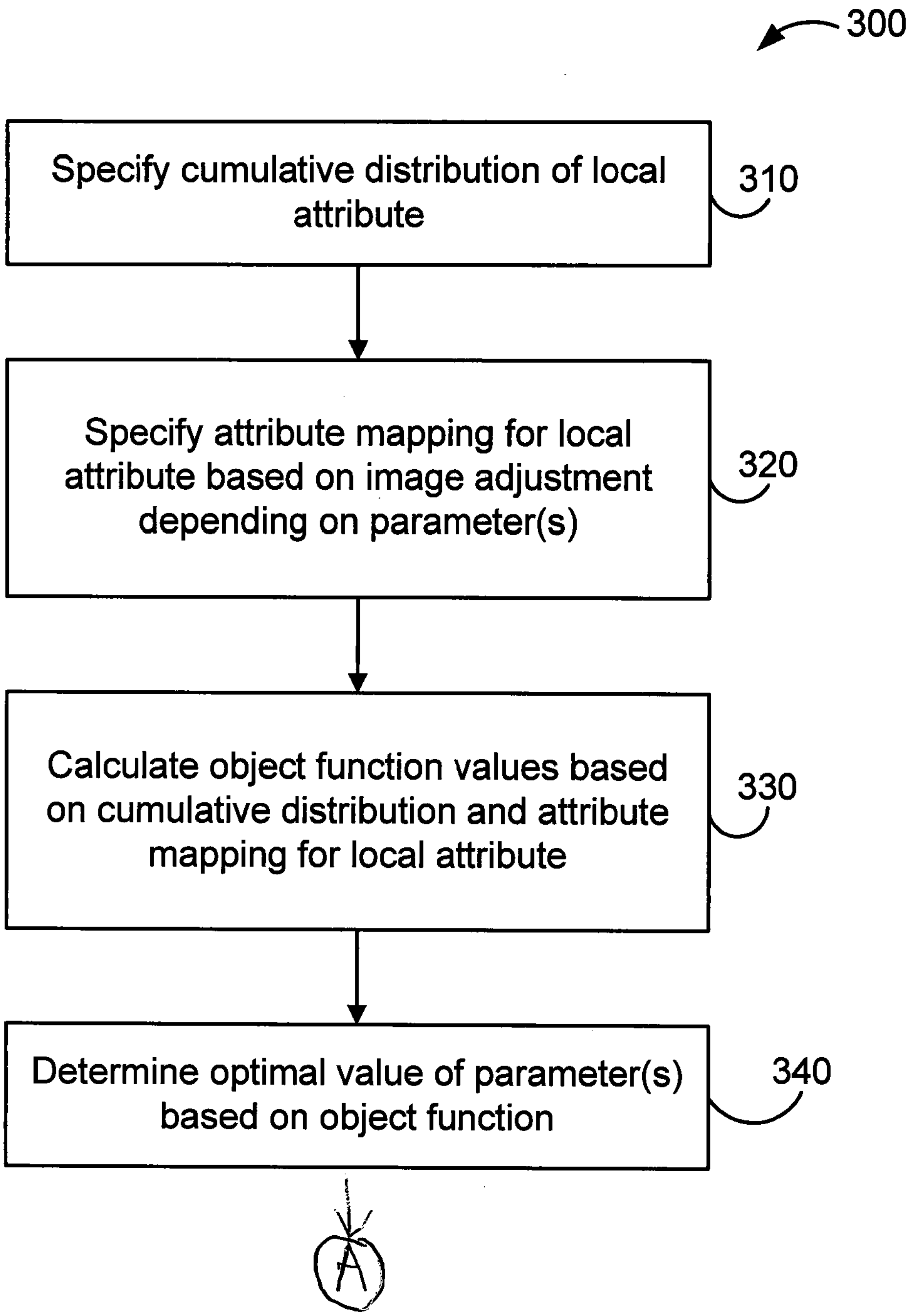
300
Specify cumulative distribution of local attribute
310
Specify attribute mapping for local attribute based on image adjustment depending on parameter(s)
320
Calculate object function values based on cumulative distribution and attribute mapping for local attribute
330
Determine optimal value of parameter(s) based on object function
340
A

FIG. 3A

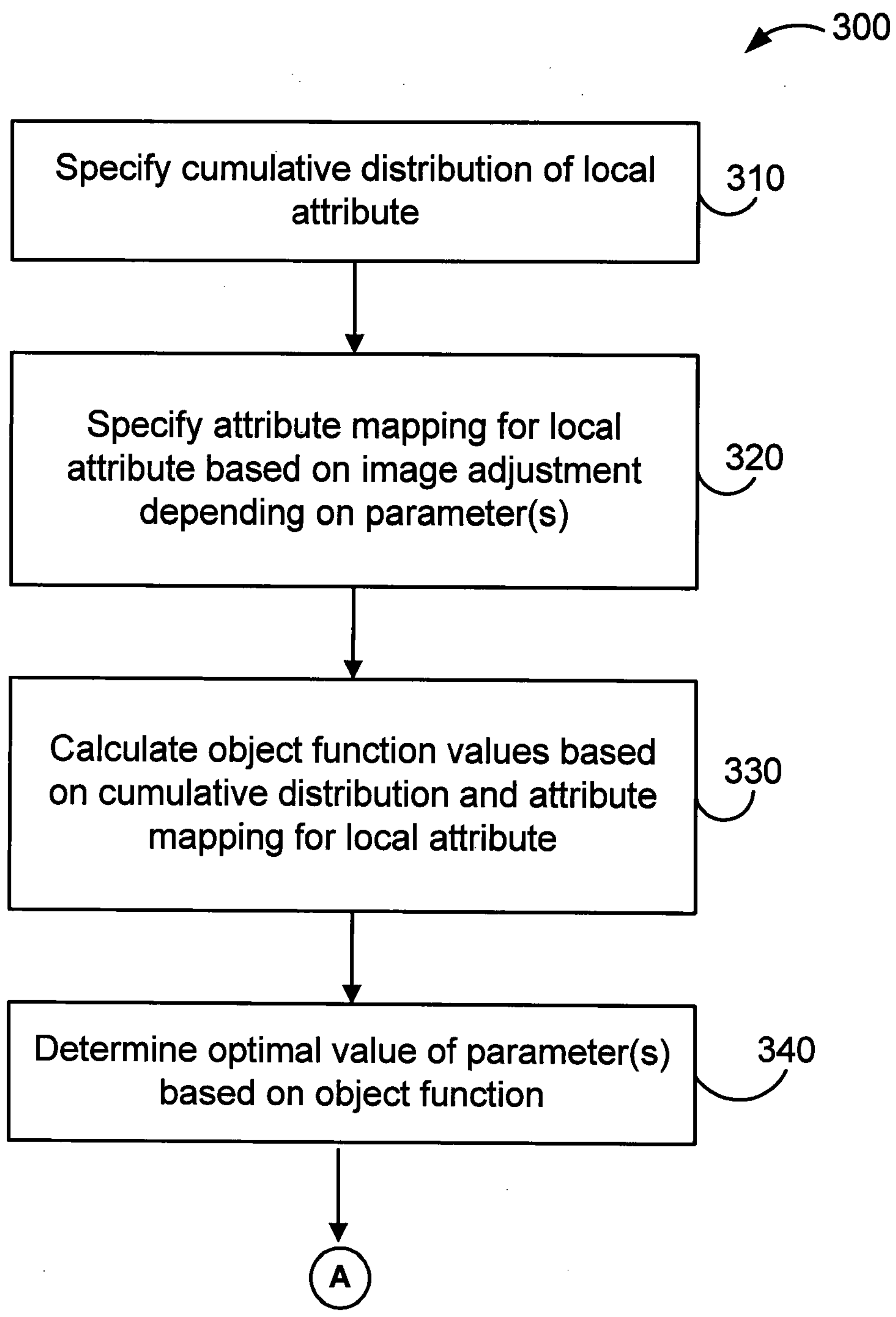
300
Specify cumulative distribution of local attribute
310
Specify attribute mapping for local attribute based on image adjustment depending on parameter(s)
320
Calculate object function values based on cumulative distribution and attribute mapping for local attribute
330
Determine optimal value of parameter(s) based on object function
340
A

FIG. 3A

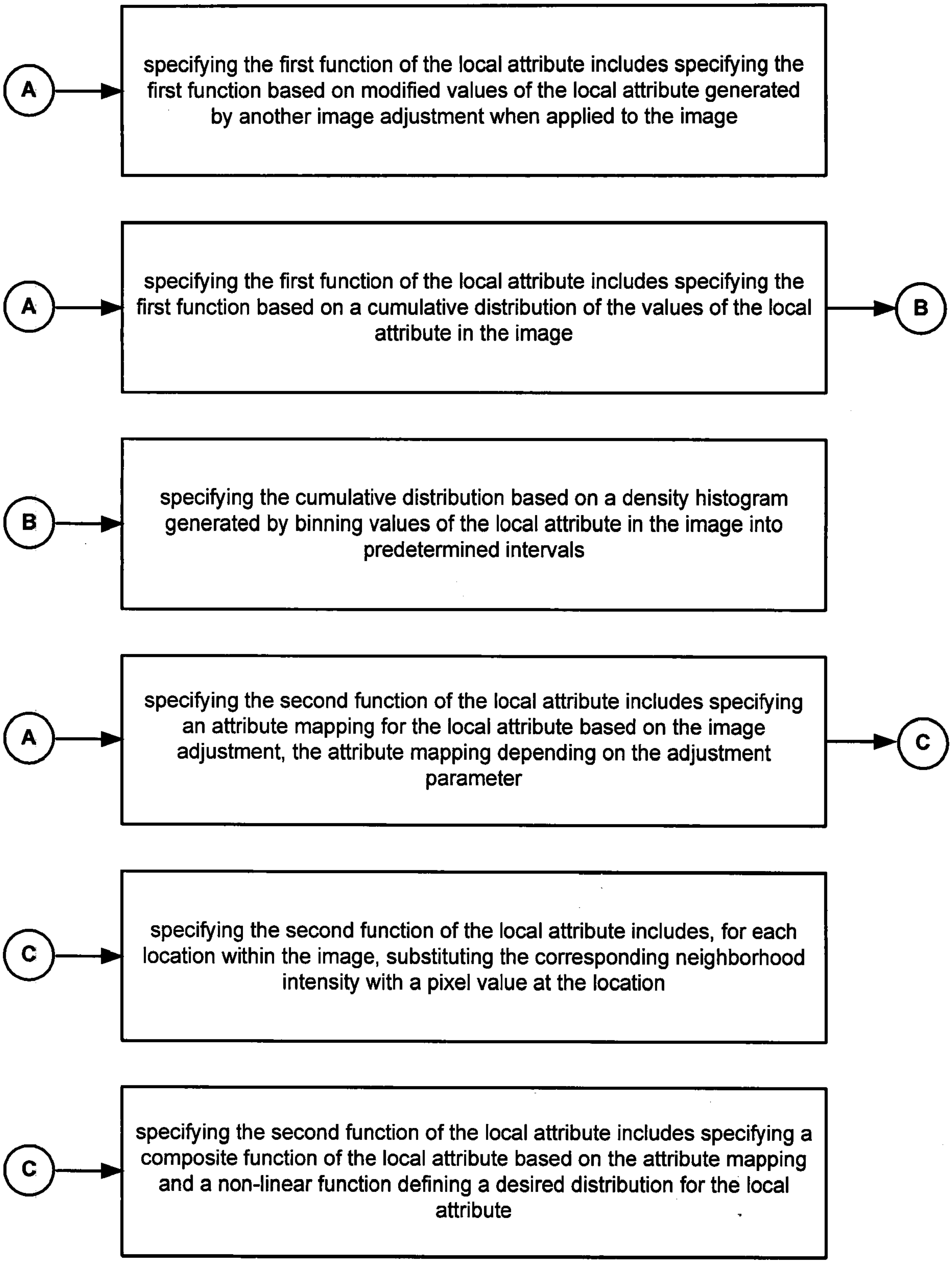
A
specifying the first function of the local attribute includes specifying the first function based on modified values of the local attribute generated by another image adjustment when applied to the image
A
specifying the first function of the local attribute includes specifying the first function based on a cumulative distribution of the values of the local attribute in the image
B
B
specifying the cumulative distribution based on a density histogram generated by binning values of the local attribute in the image into predetermined intervals
A
specifying the second function of the local attribute includes specifying an attribute mapping for the local attribute based on the image adjustment, the attribute mapping depending on the adjustment parameter
C
C
specifying the second function of the local attribute includes, for each location within the image, substituting the corresponding neighborhood intensity with a pixel value at the location
C
specifying the second function of the local attribute includes specifying a composite function of the local attribute based on the attribute mapping and a non-linear function defining a desired distribution for the local attribute

FIG. 3B

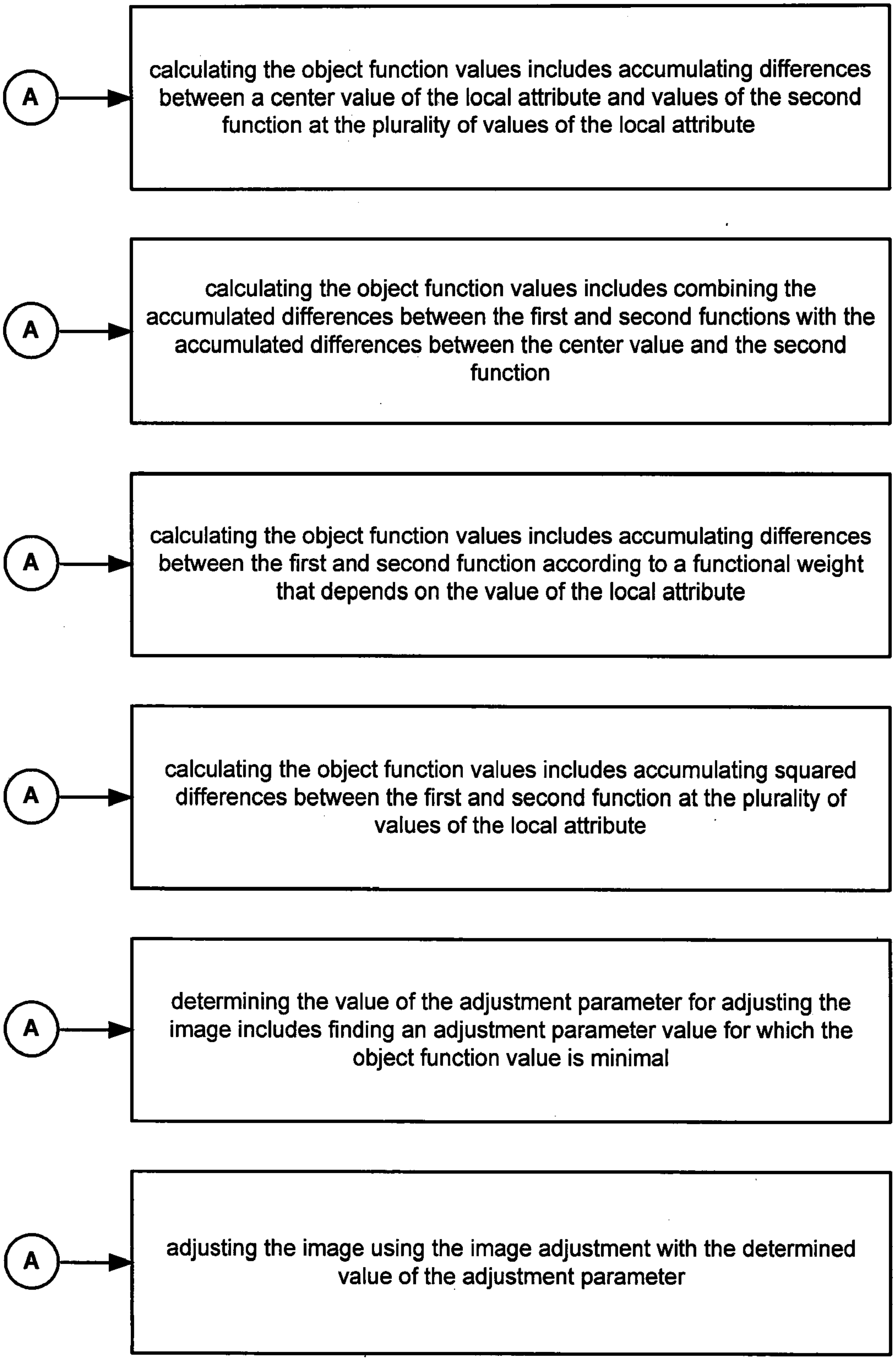
A
calculating the object function values includes accumulating differences between a center value of the local attribute and values of the second function at the plurality of values of the local attribute
A
calculating the object function values includes combining the accumulated differences between the first and second functions with the accumulated differences between the center value and the second function
A
calculating the object function values includes accumulating differences between the first and second function according to a functional weight that depends on the value of the local attribute
A
calculating the object function values includes accumulating squared differences between the first and second function at the plurality of values of the local attribute
A
determining the value of the adjustment parameter for adjusting the image includes finding an adjustment parameter value for which the object function value is minimal
A
adjusting the image using the image adjustment with the determined value of the adjustment parameter

FIG. 3C